

|                                                                                                                                                                                                                                           |                    |                                                                                                      |           |                            |                               |                               |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------|-----------|----------------------------|-------------------------------|-------------------------------|------------------|
| Form PTO-1449                                                                                                                                                                                                                             |                    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE                                           |           |                            | ATTY. DOCKET NO.<br>M140-366  | SERIAL NO.<br>Filed Herewith  |                  |
| LIST OF ART CITED BY APPLICANT<br>(Use several sheets if necessary)                                                                                                                                                                       |                    |                                                                                                      |           |                            | APPLICANT<br>Mark E. Tuttle   |                               |                  |
|                                                                                                                                                                                                                                           |                    |                                                                                                      |           |                            | FILING DATE<br>Filed Herewith |                               | GROUP<br>Unknown |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                    |                                                                                                      |           |                            |                               |                               |                  |
| *Examiner<br>Initial                                                                                                                                                                                                                      | Document<br>Number | Date                                                                                                 | Name      | Class                      | Subclass                      | Filing Date<br>If Appropriate |                  |
| B2                                                                                                                                                                                                                                        | AA                 | 5,113,184                                                                                            | 05/12/92  | Katayama                   |                               |                               |                  |
|                                                                                                                                                                                                                                           | AB                 | 5,649,296                                                                                            | 07/15/97  | MacLellan et al.           |                               |                               |                  |
|                                                                                                                                                                                                                                           | AC                 | 5,621,412                                                                                            | 04/15/97  | Sharpe et al.              |                               |                               |                  |
|                                                                                                                                                                                                                                           | AD                 | 4,926,182                                                                                            | 05/15/90  | Ohno et al.                |                               |                               |                  |
|                                                                                                                                                                                                                                           | AE                 | 4,075,632                                                                                            | 02/21/78  | Baldwin et al.             |                               |                               |                  |
|                                                                                                                                                                                                                                           | AF                 | 3,703,714                                                                                            | 11/21/72  | Andrews                    |                               |                               |                  |
|                                                                                                                                                                                                                                           | AG                 | 4,242,671                                                                                            | 12/30/80  | Piows                      |                               |                               |                  |
|                                                                                                                                                                                                                                           | AH                 | 4,384,288                                                                                            | 05/17/83  | Walton                     |                               |                               |                  |
|                                                                                                                                                                                                                                           | AI                 | 4,369,557                                                                                            | 01/25/83  | Vandebult                  |                               |                               |                  |
|                                                                                                                                                                                                                                           | AJ                 | 4,501,938                                                                                            | 02/26/83  | Kawauchi                   |                               |                               |                  |
|                                                                                                                                                                                                                                           | AK                 | 4,509,093                                                                                            | 04/02/85  | Sieffberger                |                               |                               |                  |
|                                                                                                                                                                                                                                           | AL                 | 4,568,918                                                                                            | 02/04/86  | Edel                       |                               |                               |                  |
|                                                                                                                                                                                                                                           | AM                 | 4,940,245                                                                                            | 07/10/90  | Bitte, Jr.                 |                               |                               |                  |
|                                                                                                                                                                                                                                           | AN                 | 5,019,801                                                                                            | 05/28/91  | Anderson, III              |                               |                               |                  |
|                                                                                                                                                                                                                                           | B2                 | AO                                                                                                   | 5,136,131 | 08/04/92                   | Komaki                        |                               |                  |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                    |                                                                                                      |           |                            |                               |                               |                  |
|                                                                                                                                                                                                                                           | Document<br>Number | Date                                                                                                 | Country   | Class                      | Subclass                      | Translation                   |                  |
| B2<br>B2                                                                                                                                                                                                                                  | AP                 | DE 196 45 083                                                                                        | 5/7/98    | Germany                    |                               | Yes                           | No               |
|                                                                                                                                                                                                                                           | AQ                 | EP 0 562 292                                                                                         | 2/24/93   | EPO                        |                               |                               |                  |
|                                                                                                                                                                                                                                           | AR                 |                                                                                                      |           |                            |                               |                               |                  |
|                                                                                                                                                                                                                                           | AS                 |                                                                                                      |           |                            |                               |                               |                  |
| OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                   |                    |                                                                                                      |           |                            |                               |                               |                  |
|                                                                                                                                                                                                                                           | AT                 | The New IEEE Standard Dictionary of Electrical and Electronics Terms - 5th Ed., ©1993, 1 pg. (1381). |           |                            |                               |                               |                  |
|                                                                                                                                                                                                                                           | AU                 |                                                                                                      |           |                            |                               |                               |                  |
|                                                                                                                                                                                                                                           | AV                 |                                                                                                      |           |                            |                               |                               |                  |
| EXAMINER<br><b>BRIAN ZIMMERMAN</b><br>PRIMARY EXAMINER                                                                                                                                                                                    |                    |                                                                                                      |           | DATE CONSIDERED<br>4/26/05 |                               |                               |                  |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                    |                                                                                                      |           |                            |                               |                               |                  |

|                                                                                                                                                                                                                                              |    |                                                            |          |                  |                               |          |                               |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------|----------|------------------|-------------------------------|----------|-------------------------------|----|
| Form PTO-1449                                                                                                                                                                                                                                |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |          |                  | ATTY. DOCKET NO.<br>M140-366  |          | SERIAL NO.<br>Filed Herewith  |    |
| LIST OF ART CITED BY APPLICANT<br>(Use several sheets if necessary)                                                                                                                                                                          |    |                                                            |          |                  | APPLICANT<br>Mark E. Tuttle   |          |                               |    |
|                                                                                                                                                                                                                                              |    |                                                            |          |                  | FILING DATE<br>Filed Herewith |          | GROUP<br>Unknown              |    |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                        |    |                                                            |          |                  |                               |          |                               |    |
| *Examiner<br>Initial                                                                                                                                                                                                                         |    | Document<br>Number                                         | Date     | Name             | Class                         | Subclass | Filing Date<br>If Appropriate |    |
| BZ                                                                                                                                                                                                                                           | AA | 5,299,227                                                  | 03/29/94 | Rose             |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AB | 5,379,033                                                  | 01/03/95 | Jujii et al.     |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AC | 5,448,110                                                  | 09/05/95 | Tuttle et al.    |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AD | 5,852,289                                                  | 12/22/98 | Mosshiko         |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AE | 5,926,094                                                  | 07/29/99 | Marnou           |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AF | 5,937,512                                                  | 08/17/99 | Lake             |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AG | 5,942,978                                                  | 08/24/99 | Shafer           |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AH | 5,963,177                                                  | 10/05/99 | Tuttle et al.    |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AI | 5,972,152                                                  | 10/26/99 | Lake et al.      |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AJ | 5,972,156                                                  | 10/26/99 | Brady et al.     |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AK | 5,988,510                                                  | 11/23/99 | Tuttle et al.    |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AL | 6,130,602-Jumbo                                            | 10/10/00 | O'Toole et al.   |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AM | 6,037,879                                                  | 03/14/00 | Tuttle           |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AN | 5,525,992                                                  | 06/11/96 | Froschmeier      |                               |          |                               |    |
| BZ                                                                                                                                                                                                                                           | AO | 4,918,425                                                  | 04/1990  | Greenberg et al. |                               |          |                               |    |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                     |    |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              |    | Document<br>Number                                         | Date     | Country          | Class                         | Subclass | Translation                   |    |
|                                                                                                                                                                                                                                              |    |                                                            |          |                  |                               |          | Yes                           | No |
|                                                                                                                                                                                                                                              | AP |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AQ |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AR |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AS |                                                            |          |                  |                               |          |                               |    |
| OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                      |    |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AT |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AU |                                                            |          |                  |                               |          |                               |    |
|                                                                                                                                                                                                                                              | AV |                                                            |          |                  |                               |          |                               |    |
| EXAMINER<br><b>BRIAN ZIMMERMAN</b><br><b>PRIMARY EXAMINER</b>                                                                                                                                                                                |    |                                                            |          |                  | DATE CONSIDERED<br>4/26/05    |          |                               |    |
| *EXAMINER: Initial if reference considered, *indicates if not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |    |                                                            |          |                  |                               |          |                               |    |

|                                                                                                                                                                                                                                                          |                    |                                                            |          |                            |                               |                               |                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|----------|----------------------------|-------------------------------|-------------------------------|------------------------------|--|
| Form PTO-1449                                                                                                                                                                                                                                            |                    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |          |                            | ATTY. DOCKET NO.<br>M140-366  |                               | SERIAL NO.<br>Filed Herewith |  |
| LIST OF ART CITED BY APPLICANT<br>(Use several sheets if necessary)                                                                                                                                                                                      |                    |                                                            |          |                            | APPLICANT<br>Mark E. Tuttle   |                               |                              |  |
|                                                                                                                                                                                                                                                          |                    |                                                            |          |                            | FILING DATE<br>Filed Herewith |                               | GROUP<br>Unknown             |  |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                                    |                    |                                                            |          |                            |                               |                               |                              |  |
| *Examiner<br>Initial                                                                                                                                                                                                                                     | Document<br>Number | Date                                                       | Name     | Class                      | Subclass                      | Filing Date<br>If Appropriate |                              |  |
| BT                                                                                                                                                                                                                                                       | AA                 | 5,319,364                                                  | 06/1994  | Waraksa et al.             |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AB                 | 5,764,180                                                  | 06/1998  | Cummings                   |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AC                 | 5,917,423                                                  | 06/199   | Devall                     |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AD                 | 5,952,937                                                  | 09/199   | Koopman et al.             |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AE                 | 5,988,347                                                  | 11/1999  | Brinkmeyer et al.          |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AF                 | 6,285,295                                                  | 09/2001  | Casden                     |                               |                               |                              |  |
| BT                                                                                                                                                                                                                                                       | AG                 | 6,380,845                                                  | 04/30/02 | Tuttle                     |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AH                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AI                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AJ                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AK                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AL                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AM                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AN                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AO                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          |                    |                                                            |          |                            |                               |                               |                              |  |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                                 |                    |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | Document<br>Number | Date                                                       | Country  | Class                      | Subclass                      | Translation                   |                              |  |
|                                                                                                                                                                                                                                                          |                    |                                                            |          |                            |                               | Yes                           | No                           |  |
|                                                                                                                                                                                                                                                          | AP                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AQ                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AR                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AS                 |                                                            |          |                            |                               |                               |                              |  |
| OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                                  |                    |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AT                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AU                 |                                                            |          |                            |                               |                               |                              |  |
|                                                                                                                                                                                                                                                          | AV                 |                                                            |          |                            |                               |                               |                              |  |
| EXAMINER<br><b>BRIAN ZIMMERMAN</b><br>PRIMARY EXAMINER                                                                                                                                                                                                   |                    |                                                            |          | DATE CONSIDERED<br>4/26/05 |                               |                               |                              |  |
| <small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> |                    |                                                            |          |                            |                               |                               |                              |  |